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<110> Petrukhin, Konstantin
 Caskey, C. Thomas
 Metzker, Michael
 Claes, Wadelius

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<150> 60/112,926
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<211> 585

<212> PRT

<213> Homo Sapiens

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Phe Val Glu Gly Lys Asp Glu Gln Ser Arg Leu Leu Arg Arg Thr Leu
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<212> DNA
<213> Homo Sapiens
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			180					185					190		
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	195					200						205			
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Tyr	Ala	Tyr	Asp	Trp	Ile	Ser	Ile	Pro	Leu	Val	Tyr	Thr	Gln	Val	Val
225					230					235					240
Thr	Val	Ala	Val	Tyr	Ser	Phe	Phe	Leu	Thr	Cys	Leu	Val	Gly	Arg	Gln
			245						250					255	
Phe	Leu	Asn	Pro	Ala	Lys	Ala	Tyr	Pro	Gly	His	Glu	Leu	Asp	Leu	Val
		260						265					270		
Val	Pro	Val	Phe	Thr	Phe	Leu	Gln	Phe	Phe	Phe	Tyr	Val	Gly	Trp	Leu
		275					280					285			
Lys	Val	Gly	Leu	Ser	Arg	Ala	Leu	Leu	Gly	Trp	Arg	His	Gly	Gln	Arg
	290					295					300				
Gly	His	Gly	Gln	Gln	Leu	Leu	Glu	Thr	Arg	Met	Gln	Cys	Gln	Glu	Arg
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Lys	Val	Ser	Arg	Val	Glu	Ser	Ser	Gln	Ala	Trp	Trp	Arg	Thr	Pro	Val
			325						330					335	
Ile	Pro	Ala	Thr	Arg	Glu	Ala	Glu	Ala	Gly	Glu	Ser	Leu	Glu	Pro	Gly
		340						345					350		
Arg	Arg	Arg	Leu	Trp	Trp	Gln	Ser	Ser	Ser	Ser	Thr	Pro	Leu	Glu	Arg
		355					360					365			
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<213> Mus Musculus

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			20				25					30			
Tyr	Gly	Glu	Phe	Leu	Val	Phe	Ile	Phe	Leu	Tyr	Tyr	Ser	Ile	Arg	Gly
		35					40					45			
Leu	Tyr	Arg	Met	Val	Leu	Ser	Ser	Asp	Gln	Gln	Leu	Leu	Phe	Glu	Lys
	50					55					60				
Leu	Ala	Leu	Tyr	Cys	Asp	Ser	Tyr	Ile	Gln	Leu	Ile	Pro	Ile	Ser	Phe
65					70					75					80
Val	Leu	Gly	Phe	Tyr	Val	Thr	Leu	Val	Val	Ser	Arg	Trp	Trp	Ser	Gln
			85						90					95	
Tyr	Glu	Asn	Leu	Pro	Trp	Pro	Asp	Arg	Leu	Met	Ile	Gln	Val	Ser	Ser
			100					105					110		
Phe	Val	Glu	Gly	Lys	Asp	Glu	Glu	Gly	Arg	Leu	Leu	Arg	Arg	Thr	Leu
		115					120					125			
Ile	Arg	Tyr	Ala	Ile	Leu	Gly	Gln	Val	Leu	Ile	Leu	Arg	Ser	Ile	Ser
	130					135					140				
Thr	Ser	Val	Tyr	Lys	Arg	Phe	Pro	Thr	Leu	His	His	Leu	Val	Leu	Ala
145					150					155					160
Gly	Phe	Met	Thr	His	Gly	Glu	His	Lys	Gln	Leu	Gln	Lys	Leu	Gly	Leu
			165						170					175	
Pro	His	Asn	Thr	Phe	Trp	Val	Pro	Trp	Val	Trp	Phe	Ala	Asn	Leu	Ser
			180					185					190		
Met	Lys	Ala	Tyr	Leu	Gly	Gly	Arg	Ile	Arg	Asp	Thr	Val	Leu	Leu	Gln
		195					200					205			
Ser	Leu	Met	Asn	Glu	Val	Cys	Thr	Leu	Arg	Thr	Gln	Cys	Gly	Gln	Leu
	210					215					220				
Tyr	Ala	Tyr	Asp	Trp	Ile	Ser	Ile	Pro	Leu	Val	Tyr	Thr	Gln	Val	Val
225					230					235					240
Thr	Val	Ala	Val	Tyr	Ser	Phe	Phe	Leu	Ala	Cys	Leu	Ile	Gly	Arg	Gln
			245						250					255	
Phe	Leu	Asn	Pro	Asn	Lys	Asp	Tyr	Pro	Gly	His	Glu	Met	Asp	Leu	Val
		260						265					270		
Val	Pro	Val	Phe	Thr	Ile	Leu	Gln	Phe	Leu	Phe	Tyr	Met	Gly	Trp	Leu
		275					280					285			
Lys	Val	Ala	Glu	Gln	Leu	Ile	Asn	Pro	Phe	Gly	Glu	Asp	Asp	Asp	Asp
	290					295					300				
Phe	Glu	Thr	Asn	Trp	Ile	Ile	Asp	Arg	Asn	Leu	Gln	Val	Ser	Leu	Leu
305					310					315					320
Ser	Val	Asp	Gly	Met	His	Gln	Asn	Leu	Pro	Pro	Met	Glu	Arg	Asp	Met
			325						330					335	
Tyr	Trp	Asn	Glu	Ala	Ala	Pro	Gln	Pro	Pro	Tyr	Thr	Ala	Ala	Ser	Ala
		340						345					350		
Arg	Ser	Arg	Arg	His	Ser	Phe	Met	Gly	Ser	Thr	Phe	Asn	Ile	Ser	Leu
		355					360						365		

Lys Lys Glu Asp Leu Glu Leu Trp Ser Lys Glu Glu Ala Asp Thr Asp
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 Lys Lys Glu Ser Gly Tyr Ser Ser Thr Ile Gly Cys Phe Leu Gly Leu
 385 390 395 400
 Gln Pro Lys Asn Tyr His Leu Pro Leu Lys Asp Leu Lys Thr Lys Leu
 405 410 415
 Leu Cys Ser Lys Asn Pro Leu Leu Glu Gly Gln Cys Lys Asp Ala Asn
 420 425 430
 Gln Lys Asn Gln Lys Asp Val Trp Lys Phe Lys Gly Leu Asp Phe Leu
 435 440 445
 Lys Cys Val Pro Arg Phe Lys Arg Arg Gly Ser His Cys Gly Pro Gln
 450 455 460
 Ala Pro Ser Ser His Pro Thr Glu Gln Ser Ala Pro Ser Ser Ser Asp
 465 470 475 480
 Thr Gly Asp Gly Pro Ser Thr Asp Tyr Gln Glu Ile Cys His Met Lys
 485 490 495
 Lys Lys Thr Val Glu Phe Asn Leu Asn Ile Pro Glu Ser Pro Thr Glu
 500 505 510
 His Leu Gln Gln Arg Arg Leu Asp Gln Met Ser Thr Asn Ile Gln Ala
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<213> C. elegans

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			20					25					30		

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<213> C. elegans

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			20					25					30		

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<213> C. elegans

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Ile	Pro	Leu	Glu	Phe	Val	Leu	Gly	Phe	Phe	Val	Thr	Ile	Val	Val	Asp
1				5				10						15	
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			20					25					30		

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<212> PRT

<213> C. elegans

<400> 36

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1				5				10						15	
Arg	Trp	Thr	Lys	Leu	Tyr	Gln	Thr	Ile	Gly	Phe	Ile	Asp	Asn		
			20					25					30		

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<212> PRT

<213> C. elegans

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			20					25					30		

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<212> PRT

<213> C. elegans

<400> 38

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1				5				10						15	
Arg	Trp	Thr	Tyr	Leu	Tyr	Gln	Ile	Ile	Gly	Phe	Ile	Asp	Asn		
			20				25						30		

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<212> PRT

<213> C. elegans

<400> 39

Leu	Pro	Leu	Asn	Phe	Val	Leu	Gly	Phe	Phe	Cys	Asn	Ile	Ile	Ile	Arg
1				5				10						15	
Arg	Trp	Leu	Lys	Leu	Tyr	Thr	Ser	Leu	Gly	Asn	Ile	Asp	Asn		
			20				25						30		

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<213> C. elegans

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1				5				10						15	
Arg	Trp	Met	Thr	Gln	Phe	Ala	Asn	Leu	Gly	Met	Ile	Asp	Asn		
			20				25						30		

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<212> PRT

<213> C. elegans

<400> 41

Ile	Pro	Leu	Thr	Phe	Leu	Leu	Gly	Phe	Phe	Val	Ser	Phe	Val	Val	Ala
1				5				10						15	
Arg	Trp	Gly	Ser	Ile	Leu	Asn	Gly	Ile	Gly	Trp	Ile	Asp	Asp		
			20				25						30		

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<212> PRT

<213> C. elegans

<400> 42

Ile	Pro	Val	Thr	Phe	Met	Leu	Gly	Phe	Tyr	Val	Ser	Ile	Val	Tyr	Asn
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Arg	Trp	Thr	Lys	Val	Phe	Asp	Asn	Val	Gly	Trp	Ile	Asp	Thr		
			20				25						30		

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<212> PRT

<213> C. elegans

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			20					25					30		

<210> 44

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<212> PRT

<213> C. elegans

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Ile	Pro	Leu	Thr	Phe	Leu	Leu	Gly	Phe	Tyr	Val	Ser	Asn	Val	Val	Ser
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			20					25					30		

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<212> PRT

<213> C. elegans

<400> 45

Ile	Pro	Leu	Thr	Phe	Leu	Leu	Gly	Phe	Tyr	Val	Ser	Asn	Val	Val	Ala
1				5				10						15	
Arg	Trp	Trp	Arg	Gln	Phe	Glu	Thr	Leu	Tyr	Trp	Pro	Glu	Asp		
			20					25					30		

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<212> PRT

<213> C. elegans

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1				5				10						15	
Arg	Trp	Trp	Asp	Cys	Cys	Gln	Leu	Ile	Ser	Trp	Pro	Asp	His		
			20					25					30		

<210> 47

<211> 30

<212> PRT

<213> C. elegans

<400> 47

Ile	Pro	Leu	Ser	Phe	Leu	Leu	Gly	Phe	Phe	Val	Ser	Leu	Ile	Val	Ala
1				5				10						15	
Arg	Trp	Trp	Glu	Gln	Phe	Asn	Cys	Ile	Ser	Trp	Pro	Asp	Lys		
			20					25					30		

<210> 48

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<212> PRT

<213> C. elegans

<400> 48

Val	Pro	Met	Gln	Pro	Met	Leu	Gly	Tyr	Phe	Ile	Gly	Met	Val	Gly	Glu
1				5					10					15	
Arg	Trp	Gly	Glu	Ser	Phe	Glu	Asn	Val	Ser	Tyr	Ile	Glu	Lys		
			20					25					30		